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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,604	07/07/2003	Naomi M. Jenkins	2000.107500/TT5487	7792
23720	7590 08/11/2005		EXAMINER	
WILLIAMS, MORGAN & AMERSON, P.C.			VO, HIEN XUAN	
10333 RICHN HOUSTON,	MOND, SUITE 1100 TX 77042		ART UNIT	PAPER NUMBER
,			2863	

DATE MAILED: 08/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Assistant Communication	10/614,604	JENKINS ET AL.	(bloomega)			
Office Action Summary	Examiner	Art Unit				
	Hien X. Vo	2863				
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet w	vith the correspondence addre	ess			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a recommendation of the period for reply is specified above, the maximum statutory perions for the period for reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mail term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a eply within the statutory minimum of thi od will apply and will expire SIX (6) MO ute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this comm BBANDONED (35 U.S.C. § 133).	nunication.			
Status						
1) Responsive to communication(s) filed on 25	May 2005.					
,	nis action is non-final.					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims			•			
4) ☐ Claim(s) <u>1-43</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-8,13,14,16-18,20-23,25-33 and 3.7</u> ☐ Claim(s) <u>9-12,15,19,24 and 34-37</u> is/are object to restriction and	rawn from consideration. 8-43 is/are rejected. ected to.					
Application Papers						
9) The specification is objected to by the Examin	ner.					
10)⊠ The drawing(s) filed on <u>07 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	ie drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the						
Priority under 35 U.S.C. § 119						
a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	ents have been received. ents have been received in a riority documents have been eau (PCT Rule 17.2(a)).	Application No n received in this National Sta	age			
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 03/18/05. 		o(s)/Mail Date Informal Patent Application (PTO-19	52)			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-8, 13-14, 16-18, 20-23, 25-33 and 38-43 rejected under 35
 U.S.C. 103(a) as being unpatentable over Pasadyn et al. (U.S. Patent No. 6,773,931)
 and in view of Mih et al. (U.S. Patent No. 6,407,396).

With respect to claims 1, 13, Pasadyn et al. disclose a dynamic targeting for a process control system that includes performing a process step upon a batch of workpieces using a processing tool (see e.g. abstract), performing a tool state analysis upon the processing tool (see e.g. col. Col. 3, lines 40-43) except for teaching a dynamic metrology routing adjustment process based upon the tool state analysis, the dynamic metrology routing adjustment process further comprises correlating the tool state analysis to the batch of workpieces and adjusting a metrology routing based upon the correlation. However, Mih et al. disclose a wafer metrology structure including a dynamic metrology routing adjustment process based upon the tool state analysis, the dynamic metrology routing adjustment process further comprises correlating the tool

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state analysis to the batch of workpieces and adjusting a metrology routing based upon the correlation (see e.g. Abstract). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify system of Pasadyn et al. by the wafer metrology structure as taught by Mih et al. to overcome and perform separate critical dimension measurement for each pattern formed within a semiconductor device in addition to separate overlay measurement.

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With respect to claims 2-5, 14, 18, 21, 23, 25, 30 Pasadyn et al. disclose the invention as claimed including the process step upon the batch of workpieces further comprises performing the process step upon a batch of semiconductor wafers (see e.g. col. 13. lines 55-57), the tool state analysis upon the processing tool further comprises acquiring tool state data (see e.g. col. 14, lines 10-14), the tool state data further comprises acquiring at least one of a pressure data, a temperature data, a humidity data, and a gas flow rate data relating to the process step performed upon the workpieces (see e.g. col. 2, lines 50-54), the tool state analysis upon the processing tool further comprises performing a tool health analysis relating to the processing tool (see e.g. col. 2, lines 12-20).

With respect to claims 6-8, 31-33, Pasadyn et al. disclose the invention as claimed including a fault detection analysis relating to the processing of the batch, an operation performed by the processing tool, at least one fault relating to the batch (see e.g. col. 2, lines 54-65).

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Claims 16, 17, 22, 26 are apparatus claims corresponding to method claims 1-8, 13. Therefore, claims 16, 17, 22, 26 are rejected for the same rationales set forth for claims 1-8, 13.

With respect to claim 20, Pasadyn et al. disclose the invention as claimed including a database unit to store at least one of metrology data, tool state data and the electrical test data (see e.g. Fig. 3. item 340).

With respect to claims 27-29, Pasadyn et al. disclose the invention as claimed including, the process step upon the batch of workpieces further comprises performing the process step upon a batch of semiconductor wafers (see e.g. col. 14, lines 54-55), the tool state analysis upon the processing tool further comprises acquiring tool state data (see e.g. col. 14, lines 43-46), acquiring the tool state data further comprises acquiring at least one of a pressure data, a temperature data, a humidity data, and a gas flow rate data relating to the process step performed upon the workpieces (see e.g. claim 22).

With respect to claims 38-43, the limitations of these claims have been noted in the rejection above. They are therefore consider rejected as set forth above.

Claims 9-12, 15, 19, 24, 34-37 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Applicant's arguments filed 05/25/05 have been fully considered but they are not persuasive because the prior art still read on the certain features of applicant's invention.

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hien X. Vo whose telephone number is (571) 272-2282. The examiner can normally be reached on M-F (8:00-5:30) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hien Vo 08/03/05 BRYAN BUI PRIMARY EXAMINER

3.S.